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(54) Title: STORAGE OF HAZARDOUS MATERIALS

(57) Abstract: The invention provides a method for the encapsulation of a nuclear material, which comprises treating the material with an encapsulant, which comprises a cementitious material, such as Portland Cement, and curing, said cementitious material. The method is particularly suitable for the treatment of nuclear fuel materials such as uranium metal, complete Magnox fuel elements, or fuel element debris, for which encapsulation treatments have never previously been known. Such materials may be treated by the method of the invention in order to obtain products which remains stable and monolithic for many hundreds of years, and the invention thereby offers a safe and convenient alternative means of handling other than nuclear fuel reprocessing.